The
Standards Forum

News on the DOE Technical Standards Program

Volume 6 – Number 1 – June 1998

Avoid Environmental Embarrassments

By Suzan L. Jackson and Glen Mondani, Excel Partnership Inc.

Reprinted by permission from "Power Engineering," Vol. 102, No. 1, January 1998. Suzan L. Jackson is business manager of environmental services for Excel Partnership Inc., of Sandy Hook, Connecticut. She is the author of "The ISO 14001 Implementation Guide: Creating an Integrated Management System." Glen Mondani, senior environmental consultant for Excel, was formerly a site environmental manager for Florida Power and Light Co.

After years of operation, a power plant in the northeast was surrounded by homes. In an Idyllic setting, trees lined the plant's waterway. Birds and other natural life thrived. But it was time for new construction, and the trees were cut down; birdsong ceased. All perfectly legal, but unsurprisingly—in retrospect—the community went crazy. The publicity was bad. The power company got a huge black eye.

How is this relevant to ISO 14001, the international standard for environmental management systems? The short answer is that the power company's conformance with ISO 14001 would have helped prevent this debacle. This voluntary international standard, which establishes auditable requirements for an organization's environmental management system (EMS), directs companies to consider communicating with communities

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High 5! Our Fifth Anniversary Issue

This edition of *The Standards Forum* and its monthly update, *Standards Actions*, marks our fifth anniversary for providing what we hope has been timely, accurate, and relevant information on current events in the Technical Standards Program and the "world" of standards and standardization practices. We continue to receive many compliments on the format and technical content of this publication. Recent editions of *The Standards Forum* and *Standards Actions* are available under the "DOE Technical Standards" Internet site (**http://apollo.osti.gov/html/techstds/techstds.html**).

As we stated in the June 1993 inaugural edition, we hope you continue to find *The Standards Forum* to be an informative and interesting publication. Because the document serves as a "forum" for addressing standards application and standardization approach topics of relevance to the DOE community, your comments on the publication, including suggestions for topics to be covered in future issues, are both solicited and welcomed. To facilitate receiving your input, we have included in this edition a one-page reader's survey. Please take a few minutes to fill out the survey form and fax it to Amy Bush, ORNL, 423-574-0382. Thank you in advance for completing the survey and for your continued interest and involvement in *The Standards Forum* and the DOE Technical Standards Program.

1998 Federal Technical Standards Workshop

Standards Management - A World of Change and Opportunities

Preparations are continuing for the 1998 Federal Technical Standards Workshop in Washington, D.C. on August 4-6, 1998. A separate brochure with the workshop agenda and meeting site logistics is included as an insert with this edition of *The Standards Forum*. In addition, we have established an Internet site for workshop advertisement and registration. You can access this site at the DOE Technical Standards Program Internet site (**http://apollo.osti.gov/html/techstds/techstds.html**).

Similar to the 1997 Technical Standards Program Workshop, this workshop will be held at the Loews L'Enfant Plaza Hotel. The list of Federal agencies/departments sponsoring the workshop has grown to include the Department of Energy (DOE - workshop host), the National Institute of Standards and Technology (NIST), the Environmental Protection Agency (EPA), the National Aeronautics and Space Administration (NASA), and the Food and Drug Administration (FDA). Also, the Partnership in Reliability, Maintainability, and Supportability (RMS) Standards (frequently referred to as the "RMS Partnership"), a

(Continued on Page 2)

INSIDE THIS ISSUE

a note from the Manager . . .

DOE Technical Standards Program

As I've said several times before, the DOE Technical Standards Program (TSP) is a DOE-wide management system that provides technical standards services for both Federal and contractor organizations. The TSP is managed by the Office of Nuclear Safety Policy and Standards, EH-31, with support from ORNL. The TSP functions through Technical Standards Managers (TSMs), who are designated for each DOE and contractor organization that:

(1) participates in DOE technical standards development and reviews, and
(2) represents DOE interests with the various Standards Development Organizations (SDOs).

Some of the key services provided by the TSP are:

(1) identifying existing voluntary consensus standards (VCSs) that can meet an organization's technical or programmatic needs;
(2) providing the administrative processes for developing and approving a DOE technical standard (using TSP Procedures, of course!);
(3) printing and distributing DOE technical standards to key organizations and DOE libraries;
(4) providing draft and final DOE technical standards for viewing and printing via the Internet;
(5) listing voluntary standards activities of interest to the DOE community in *Standards Actions*;
(6) publishing articles and information on technical standards activities in *The Standards Forum*;
(7) providing links to technical standards counterparts in various SDOs and other Federal agencies;
(8) recognizing DOE topical committees; and
(9) reporting on DOE technical standards activities in accordance with Federal requirements.

It is through the TSP that DOE meets the technical standards-related requirements in Public Law 104-113 and OMB Circular A-119. We've just sent out the draft of the new TSP Order (DOE O 252.1) and Guide (DOE G 252.1-1) for coordination. They can be accessed on the Directives System's Explorer (**http://www.explorer.doe.gov**), or from a link on the TSP Home Page. Take a look at these new documents for a discussion of DOE TSP functions and procedures. If you have comments or suggestions for improving these documents, contact your friendly organizational TSM and discuss your ideas with him or her.

— Rick Serbu

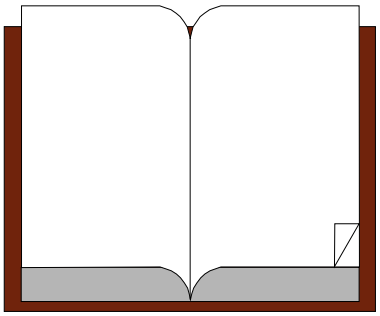
1998 Federal Technical Standards Workshop (Cont'd from Page 1)

communication-educational consortium of professional societies, industrial associations, and government agencies working together to help implement acquisition/standardization reform, will also serve as a cosponsoring entity for the workshop.

The theme for the 1998 workshop is "Standards Management - A World of Change and Opportunities." The workshop's goal is to further the implementation of the National Technology Transfer and Advancement Act of 1995 (Public Law 104-113) through the sharing of standards management success stories, "lessons learned," and emerging initiatives within the Executive branch of the Federal Government. The target audience for this workshop includes agency/department and contractor personnel and representatives of standards developing organizations that either use technical standards in their work for the Federal Government or participate in standards writing/management activities in support of the missions and programs of Federal agencies/departments. As with previous standards workshops sponsored by the DOE, views on the technical subject areas under the workshop theme will be solicited from and provided by agency Standards Executives and standards program managers, voluntary standards organizations, and the private sector. We anticipate that 200-250 individuals will participate in the workshop.

Remember that the Technical Standards Managers' Committee will meet on Monday, August 3rd, and the TSP tutorial will be held on the morning of August 4th. Make your plans to attend now! If you have any questions on the workshop, please contact either Rick Serbu, Technical Standards Program Manager, EH-31, 301-903-2856, **Richard.Serbu@eh.doe.gov**, or Don Williams, ORNL, 423-574-8710, dw5@ornl.gov.

Nuclear Fuel Cycle Facility Accident Analysis Handbook (NUREG/CR-6410)

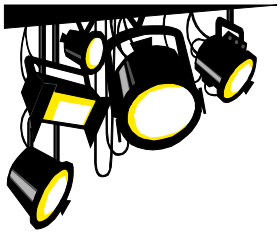


The subject document was recently received by the Technical Standards Program Office. Because of the amount of "technical standards" information in this report, we wanted to bring the document to your attention.

As discussed in the "Abstract," the purpose of the report (prepared by SAIC for NRC's Office of Nuclear Materials Safeguards and Security, NMSS) is to "provide guidance on how to calculate the characteristics of releases of radioactive materials and/or hazardous chemicals from nonreactor nuclear facilities…(and) how to calculate the consequences of those releases." Appendices to the report are characterized as including summary nuclear/chemical information and descriptions of various fuel cycle facilities, sample problems involving postulated accidents, a computer model for calculating leak path factors, and a comparison of NRC, EPA, and OSHA programs that address chemical safety.

If you are interested in obtaining copies of the report, please contact the NRC Public Documents Room, the U.S. Government Printing Office, or the National Technical Information Service.

Technical Standards Manager Spotlight



Robert C. Girton
Technical Standards Manager
Lockheed Martin Idaho
Technologies Company
Idaho Falls, Idaho

Bob Girton is the manager of Performance Oversight for Lockheed Martin Idaho Technologies Company (LMITCO) in Idaho Falls, Idaho. This position includes leading the Issues Management Program and the identification of Lessons Learned, Trending, Requirements Management, and Documents Management. This position also involves management of the Issues electronic database system and the Independent Assessment and Oversight Program for LMITCO.

Bob assumed the duties of Technical Standards Manager for LMITCO in 1993. "Technical Standards are important tools to help us conduct business in a complex environment," Bob told *The Standards Forum*. "Although we are working hard to identify and use non-Government standards, our Technical standards Program has been very successful over the years in coordinating the development of standards that are unique to the DOE business." Bob appreciates the importance of periodic Technical Standards Manager meetings for resolving issues. "I have been impressed with the cooperation and work ethics of the attendees and the effectiveness of the program office in the meeting planning process," Bob said. "But I believe the real strength in the Technical Standards Program is in the diverse backgrounds and experience among the Technical Standards Managers. This causes excellent discussions, and we always seem to come to a consensus."

> ***"...I believe the real strength in the Technical Standards Program is in the diverse backgrounds and experience among the Technical Standards managers. This causes excellent discussions and we always seem to come to a consensus."***
>
> ***— Bob Girton***

Bob's professional career has spanned 37 years, all of it in the nuclear field. He started his career as a scientist and supervisor at the Idaho National Engineering and Environmental Laboratory (then the National Reactor Testing Station), working in the areas of nuclear fuel reprocessing and waste solidification. He has worked for several different companies in the Idaho Falls area, and has been involved in a wide variety of assignments including hazardous waste management, solid waste energy conversion, criticality and shielding studies, environmental evaluations, radiological and industrial safety, hoisting and rigging, construction safety, explosives safety, Standards/Requirements Identification Documents, and Price Anderson Amendment Act nuclear safety rules.

"When I reflect," Bob concluded, "it is amazing how important the non-mandatory guidance and standards documents have been, and their importance has increased in proportion to the increase in more stringent rules and regulations. In the early years of my career, I was a user of procedures and standards in chemical laboratories. Then I became involved in the development of a few standards, and for the last decade I have focused on the management of requirements and standards. I have been very close to the Department Standards Program and the new Directives System and have tried to contribute to doing things smarter, faster, cheaper, and above all, safer. These have been very successful programs due to, I believe, the DOE and its contractors working together. I am certain that we will continue to utilize our experience as we search for better efficiency in the standards process."

Standards Forum

Editor ..... Marty Marchbanks

Distribution: If you would like to have your name added to (or removed from) the mailing list for this publication, or you need to make an address change, please notify Marty Marchbanks, Oak Ridge National Laboratory (ORNL), 423-241-3658; FAX: 423-574-0382; Email: mmf@ornl.gov.

Comments: If you have any questions or comments please contact Rick Serbu, EH-31, 301-903-2856; Email: **Richard.Serbu@eh.doe.gov**. If you have any questions or comments on DOE standards projects, please call Don Spellman, ORNL, 423-574-7891; Email: **spellmandj@ornl.gov**.

Publication: ORNL and DOE's Office of Scientific and Technical Information publish *The Standards Forum* quarterly for the DOE Technical Standards Program.

Topical Committee Developments

The Technical Standards Program Office (TSPO) would like to encourage topical committees to participate in DOE lessons learned programs. Topical committees can provide experience in their subject areas for incorporation in lessons learned data bases and identify lessons learned relevant to their work. A number of the existing topical committees already cover many of the Lessons Learned subject areas (see DOE-STD-7501-95, "Development of DOE Lessons Learned Programs") which were developed in conjunction with the TSP. The following is a list of Lessons Learned subject areas and TSP topical committees with interests in the areas.

- Conduct of Operations - Occurrence Reporting Special Interest Group (SIG)
- Engineering Design and Construction (Nuclear/Nonnuclear) - Construction Safety; Hoisting and Rigging; Backup Power Working Group
- Emergency Management - Emergency Management SIG (EM SIG)
- Environmental Restoration and Waste Management - ISO 14000 EMS
- Fire Protection - Fire Protection
- Management - Performance-Based Management SIG (PBM SIG)
- Occupational Safety and Health - Industrial Hygiene/Occupational Safety SIG (IH/OS SIG)
- Packaging and Transportation - Packaging and Transportation SIG (PATS SIG)
- Quality - Quality Management SIG (QM SIG) and Supplier Quality Information Group (SQIG)
- Research and Development - Metrology and/or Accreditation
- Training and Qualification - Nuclear Safety Training

If you are a member of a DOE working group or technical group that represents a technical or functional interest and would like your organization to be recognized across the DOE complex as a TSP topical committee, contact M. Norman Schwartz, 301-903-2996, Email **Norm.Schwartz@eh.doe.gov**, or Richard Serbu, 301-903-2856, Email **Richard.Serbu@eh.doe.gov**. You will have the opportunity to share ideas with like-minded scientists and engineers within the Department, get more involved in standards work, and also stand with peer subject matter experts as the focal point for lessons learned experience across the DOE complex in your specialized area.

Metrology Topical Committee Annual Meeting

Adherence to ISO Guide 25, "General Requirements for the Competence of Calibration and Testing Laboratories," for calibration and testing laboratories within the Department of Energy (DOE) complex was a focal point at the Second Annual Meeting of the DOE Metrology Committee on March 11-12, 1998, at the Pacific Northwest National Laboratory (PNNL) in Richland, Washington. Recognized by the DOE Technical Standards Program Office (TSPO), the members of the DOE Metrology Committee, which serves as a topical committee on metrology for the TSP, resolved to promote ISO Guide 25 within DOE as a means for helping to achieve a minimum, common set of guidelines, based on national and international standards, that is acceptable to all DOE programs.

According to Harry Moody, Idaho National Engineering and Environment Laboratory (INEEL) and chair of the metrology working group that researched ISO Guide 25, adherence to ISO Guide 25 should provide uniformity within DOE and bring DOE into alignment with national and international standards for testing and calibration laboratories. In the long run, this should prove beneficial to DOE as it implements the guidelines of the "National Technology Transfer and Advancement Act of 1995" (Public Law 104-113) and "Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities" (OMB Circular A-119).

Dick Pettit, Sandia National Laboratories-Albuquerque (SNLA), the DOE representative to the recently formed National Cooperation for Laboratory Accreditation (NACLA), stated that adopting ISO Guide 25 within DOE is in agreement with the activities of NACLA and with developing mutual recognition agreements between the U.S. and other national accreditation organizations. The vision of NACLA is "a test or calibration performed once and accepted worldwide," stated Pettit.

Sharrill Dittmann, Chief of Calibration Services at the National Institute of Standards and Technology, was a featured speaker at the meeting. Dittmann reported that ISO Guide 25 will become a standard: ISO 17025. She noted that even as a Guide, the document has achieved international recognition and acceptance, and it forms the basis for testing and calibration laboratory evaluation around the world. Dittmann applauded DOE efforts to adopt a common standard and noted that their choice of ISO Guide 25 would be consistent with best practices.

Other matters covered at the annual meeting included announcement of the new DOE Metrology Committee Web site (soon to be published), and the Committee's imminent release of topical position papers on various subjects: "Adopting a Single Standard," "Outsourcing", "Charge-Back," and "Lessons Learned."

New DOE Accreditation Committee Targets Issues and Resolutions for First Annual Meeting

The first annual meeting of the DOE Topical Committee on Laboratory Accreditation (Committee) will be held at NIST in Gaithersburg, Maryland on September 23-24, 1998. The purpose of the Committee is to

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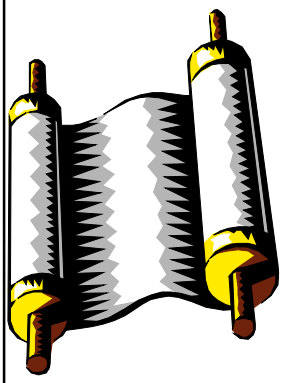


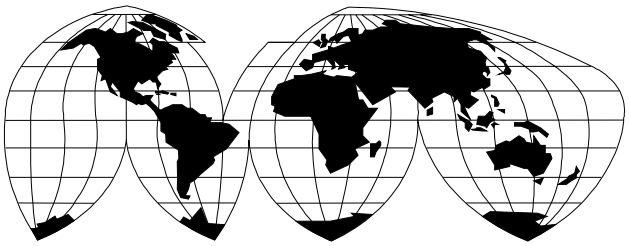
Revised OMB Circular A-119

The revision of OMB Circular A-119, "Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities," was announced in the March 1998 issue of *The Standards Forum*. Other standards news publications also announced the new revision, and provided their own comments.

In the March 1998 issue of *The Standardization Newsletter*, Brad Bergmann, Chair of the Defense Standards Improvement Council, wrote on the subject in his "Message from the Chairman." He noted the new "question and answer" and "plain English" format that is used the clarify the policies in the circular. He observed that the plain English approach serves to emphasize the intent of the President and Congress to promote non-Government standards use and development within the Federal Government. Mr. Bergmann also comments on the "best interest" caveat employed by the circular in describing the use of non-Government standards. The entire text of the Bergmann article as well as OMB Circular A-119 may be viewed from the DSP home page at **www.acq.osd.mil/dsp**.

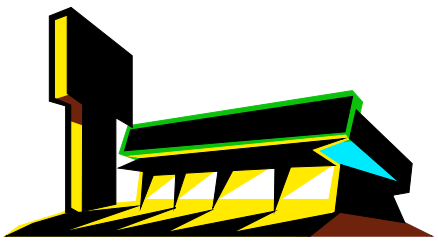
The *TMO Update*, Vol. 23, No. 02, calls the revised OMB A-119 a "significantly different document," and comments on the canvass method of standards development and how this may impact the interpretation of the term "voluntary consensus standards" as used in the circular. The oversight appeal options available to the private sector are more visible in the new circular, according to the *TMO Update*. The *TMO Update* may be viewed in its entirety at URL: **www.tmoinc.com**.

The World of Standards



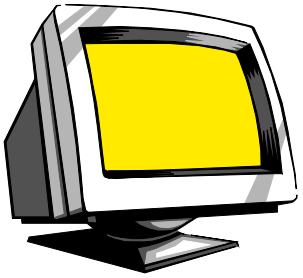
NEWS BRIEFS

ANSI's Electronic Standards Store (ESS)



The American National Standards Institute (ANSI) now offers electronic standards shopping via a new addition to their World Wide Web site (**www.ansi.org**). Either paper or electronic download delivery can be specified and purchases can be completed on-line by credit card. The electronic versions are provided in PDF format with searchable text. Currently, over 50 U.S. and international standards are offered in the new store, which is now in the first of three planned stages of development. Future plans include linking with the National Standards System Network (NSSN), which contains information on over 250,000 standards, and a link to the *ANSI Online* catalog, which offers over 50,000 standards.

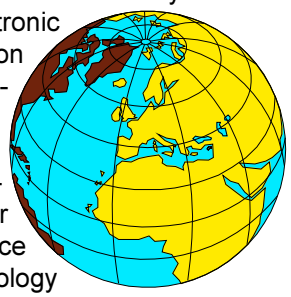
ANSI Reporter On-Line



The *ANSI Reporter*, the monthly newsletter of the American National Standards Institute (ANSI), is now available on the Internet. The newsletter features reports on national and international policy-level meetings, commentaries from the business and standards communities, editorials on topical issues, interviews, and profiles on the strategic use of standards by leading U.S. companies. Distribution is normally available to ANSI members only. However, for a limited time, the ANSI Reporter will be available to all interested readers via **http://web.ansi.org/public/news.html**.

Global Information Infrastructure

"With the value for goods and services to be traded over the Internet within the next five years estimated to be $327 billion, security is one of the key issues in ensuring continued growth in electronic commerce and the Global Information Infrastructure (GII)…Coordination between governments and the private sector is critical to creating a global environment where electronic commerce can flourish," said Oliver Smoot, IISP chair and Executive Vice President of the Information Technology Industry Council (ITI) at a recent workshop.



"Safe Electronic Commerce," the theme of a two-day March workshop sponsored by the American National Standards Institute's (ANSI) Information Infrastructure Standards Panel (IISP), focused on these and other security issues, and concluded that although there are problems, solutions are either in place or on the way. The workshop focused on a number of security issues for subjects such as copyrighted materials and credit card numbers. The topics discussed included "Commerce In Cyberspace: Is It Safe?," "The Role of Governments and International Perspectives," "Protecting Content on the Net," "Copyright Management," and "Electronic Transactions & Payments."

Speakers representing the European Standards Committee's Information Society Standardization System (CEN/ISSS), a new organization partially funded by the European Commission, provided an international perspective of European activities

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News Briefs (Continued from Page 5)

at the IISP workshop. Representatives from the U.S. Department of Commerce, the U.S.-based Copyright Clearance Center, the National Institute of Standards and Technology, and various commercial organizations were also featured.

IISP meetings are open to all interested parties. Additional information, including membership, meeting schedules, and standards needs identified to date, may be obtained by logging on to the IISP World Wide Web site (**http://web.ansi.org/public/iisp/default.htm**); or by contacting Michelle Maas 212-642-4884, **mmaas@ansi.org**, or R.M."Chick" Hayden 603-964-6349, **chayden@ansi.org**.

Acquisition Reform in the DoD

The Standardization Newsletter reports in the March 1998 edition that the Department of Defense's (DoD) resolve to improve, accelerate, and economize their acquisition practices has led to promotion of international as well as interservices cooperation. At a January 15, 1998, conference at the American embassy in London cosponsored by the Defense Contract Management Command Northern Europe and the Office of Defense Cooperation, the focus was how to conduct business "better, faster, cheaper" through Management Councils and the Single Process Initiative. Six guest speakers representing organizations involved in Acquisition Reform (AR) addressed representatives from 40 companies and 12 international defense organizations. Subjects covered competitive advantages through mergers and reform, the importance of flexibility and the future of reform, performance based contracting, sharing of business and process data, continuous improvement, and other reform issues.

The March/April 1998 issue of *AR Today* contains articles that emphasize AR success stories, legal measures promoting AR, acquisition-related "cultural change," AR cooperation among the services, and logistics reform—an activity closely related to AR. "AR Week '98" was held at the Pentagon May 4-8, 1998, under the theme, "Leading and Embracing Change - Institutionalizing and Accelerating Acquisition Reform."

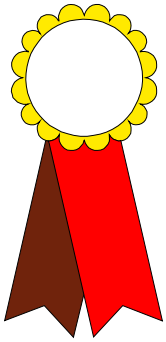
Report on Voluntary Standards Participation

In keeping with the policy of the Federal Government regarding the participation of Government employees in the activities on non-Government standards bodies, a large number of DOE employees are involved in the preparation of voluntary consensus standards (VCSs). *The Standards Forum* encourages such participants to share their experiences with our readers, and in keeping with this invitation, the following report on activities related to surface analysis was submitted by Donald R. Baer, Pacific Northwest National Laboratory.

A revised guide to the methods used for controlling surface charging and for charge referencing spectra has been released by ASTM Committee E42 on Surface Analysis and has been designated as Standard E 1523-97.1. The guide is meant to acquaint X-ray photoelectron spectroscopy (XPS) users with the various charge control and charge referencing techniques that are and have been used in the acquisition and interpretation of XPS data from surfaces of insulating specimens. Dr. Baer is 2nd vice chair of E42.

ASTM E42 on Surface Analysis is now publishing summaries of new and revised standards in the *Journal of Vacuum Science and Technology*. Dr. Baer is also involved as the chair of ISO TC 201 SC5, Auger Electron Spectroscopy. Some of the current standards in process include standards on surface chemical analysis and auger electron spectroscopy.

NACLA Open Forum a Success



The National Institute of Standards and Technology (NIST) hosted an Open Forum on April 16, 1998, to present the status of the National Cooperation for Laboratory Accreditation (NACLA). The forum was attended by over 120 individuals representing U.S. testing and calibration laboratories and other interested parties. The purpose of NACLA is first to recognize the competency of accreditation bodies in the U.S. and then to expand throughout North America. This will lead to a reduction in multiple accreditations of testing/calibration laboratories and to international recognition of the U.S. testing and calibration laboratories worldwide. NACLA has been meeting for about one year, and the forum at NIST was scheduled to see if the procedures and process were acceptable to the community.

At the forum, R. B. Pettit, who represents the DOE on the NACLA Interim Board of Directors, presented an overview of the proposed organization as documented in the draft Quality Manual. Other presentations detailed the Accreditation Body Recognition Process and the NACLA Bylaws. The Recognition process will utilize a hybrid model in that the assessment of accreditation bodies will involve peer review by accreditation body representatives, by laboratory representatives, and by regulatory agencies. With representatives from all stakeholders involved in the recognition process, these groups should buy in to the process. Details of the recognition process are contained in the Recognition Document, which can be obtained from R. B. Pettit.

After the forum, it was decided that in the next few months, NACLA will move ahead and become incorporated, membership will be solicited, a permanent Board of Directors chosen, and the recognition process prototyped on one or two selected areas (such as EMI testing, automotive testing, or calibration). With these efforts, the vision of NACLA should be realized: "a test or calibration performed once, and accepted worldwide."

For more information, contact R. B. Pettit, Sandia National Laboratories, 505-844-6242, **rbpetti@sandia.gov**.

Standards Actions

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will provide selected reviewers with copies for comment. The full text of these documents is available on the Technical Standards Program (TSP) Web Site at the URL shown at the bottom of this page. If you wish to comment on these documents, please notify your TSM.

- *Defense Programs Onsite Packaging and Transportation*, Project Number PACK-0012, (Lester Lee, DP-22, 301-903-4006, **Lester.Lee@dp.doe.gov**); comments due July 17, 1998. Note that this document is being prepared as a limited coordination standard to fill an immediate need until a fully coordinated document can be completed.
- *Criteria for Packaging and Storing Uranium-233-Bearing Materials*, Project Number SAFT-0067, (Ray Cooperstein, DP-45, 301-903-5353, **Raymond.Cooperstein@dp.doe.gov**); comments due July 13, 1998.
- *Radiological Worker Training*, Project Number TRNG-0002, (Peter O'Connell, EH-52, 301-903-5641, **Peter O'Connell@eh.doe.gov**); comments due July 1, 1998.

Technical Standards Program

Document Status as of 5/29/98

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	37	22	0

Total in process = 59

DOE Documents Recently Published

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-5728.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 1-800-553-6847 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the following URL: **http://apollo.osti.gov/html/techstds/techstds.html**.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action.* Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email **sbose@ansi.org**. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Internet site (**http://www.ansi.org**) or through the National Standards System Network (**http://www.nssn.org**).

The following American National Standards are currently in coordination:

- A10.28, *Construction and Demolition Operation - Work Platforms Suspended from Cranes or Derricks - Safety Requirements* (revision of ANSI A10.28-1990); comments due July 7, 1998.
- ASME B107.48M, *Metal Punches and Drift Pins - Safety Requirements* (new standard); comments due July 21, 1998.
- ASTM Z3263Z, *Methods of Test for Measurement of Material Flammability Using a Fire Propagation Apparatus (FPA)* (new standard); comments due July 7, 1998.
- ASTM Z7278Z, *Specification for Castings, Iron-Nickel-Chromium and Nickel Alloys, Specially Controlled for Pressure Retaining Parts for Corrosive Service* (new standard); comments due July 7, 1998.
- ASTM Z7279Z, *Specification for Castings, Austenitic-Ferritic (Duplex) Stainless Steel, for Pressure-Containing Parts* (new standard); comments due July 7, 1998.
- ASTM Z7280Z, *Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, and Structural and High-Strength, Low Alloy* (new standard); comments due July 7, 1998.
- EIA SP-4153 (if approved, to be published as ANSI/EIA 364-101), *Attenuation Test Procedure for Electrical Connectors, Sockets and Cable Assemblies of Interconnection Systems* (new standard), comments due July 21, 1998.

(Continued on Page 8)

Standards Actions (Continued from Page 7)

- IEEE C57.12.60-1998, *Guide for Test Procedures for Thermal Evaluation of Insulation Systems for Solid Cast and Resin-Encapsulated Power and Distribution Transformers* (new standard), comments due July 21, 1998.
- IEEE C57.18.10-1998, *Standard Practices and Requirements for Semiconductor Power Rectifier Transformers* (new standard); comments due July 21, 1998.
- IEEE C57.138-1998, *Recommended Practice for Routine Impulse Test for Distribution Transformers* (new standard); comments due July 21, 1998.
- IEEE C135.20-1998, *Standard for Zinc-Coated Ferrous Insulator Clevises for Overhead Line Construction* (new standard); comments due July 21, 1998.
- IEEE C135.63-1998, *Standard for Shoulder Live Line Extension Links for Overhead Line Construction* (new standard), comments due July 21, 1998.
- IEEE 1289-1998, *Guide for the Application of Human Factors Engineering in the Design of Computer-Based Monitoring and Control Displays for Nuclear Power Generating* (new standard), comments due July 21, 1998.
- IEEE 1375-1998, *Guide for Protection of Stationary Battery Systems* (new standard), comments due July 21, 1998.
- N13.1-1969, *Sampling Airborne Radioactive Materials in Nuclear Facilities, Guide to* [revision of ANSI N13.1-1969 (R1993)]; comments due July 21, 1998.
- N13.36, *Ionizing Radiation Safety Training for Workers* (new standard); comments due July 21, 1998.
- N13.52, *Personnel Neutron Dosimeters (Neutron Energies Less Than 20 MeV)* [revision and redesignation of ANSI N319-1976 (R1984)]; comments due July 21, 1998.
- UL 5B, *Strut-Type Channel Raceways and Fittings* (new standard); comments due July 7, 1998.
- UL 38, *Standard for Safety for Manually Actuated Signaling Boxes for Use with Fire-Protective Signaling Systems* (revision of ANSI/UL 38-1993); comments due July 7, 1998.
- UL 125, *Standard for Safety for Valves for Anhydrous Ammonia and LP-Gas (Other than Safety Relief)* (new standard), comments due July 21, 1998.
- UL 586, *Standard for Safety for High-Efficiency, Particulate, Air Filter Units* (revision of ANSI/UL 586-1990); comments due July 7, 1998.
- UL 711, *Standard for Safety for Rating and Testing of Fire Extinguishers* (revision of ANSI/UL 711-1995); comments due June 8, 1998.
- UL 2085, *Standard for Safety for Insulated Aboveground Tanks for Flammable and Combustible Liquids* (new standard); comments due July 7, 1998.
- UL 3044, *Standard for Safety for Surveillance Closed Circuit Television Equipment* (new standard); comments due July 7, 1998.

The following newly published American National Standards are available from ANSI:

- ANSI/ASME NQA-1-1997, *Quality Assurance Requirements for Nuclear Facility Applications.*
- ANSI/ASME Y14.100M-1998, *Engineering Drawing Practices.*

The following international standards are currently in coordination (comment due dates follow each entry)**:**

- 65B/344/FDIS, IEC 60534-3-3: *Industrial-process control valves - Part 3-3: Dimensions - End-to-end dimensions for buttweld, two-way, globe-type, straight pattern control valves* - June 15, 1998.
- 85/191/FDIS, IEC 61786, Ed. 1: *Measurement of low-frequency magnetic and electric fields with regard to exposure of human beings - Special requirements for instruments and guidance for measurement* - June 15, 1998.
- EN 345:1992/prA2, *Safety footwear for professional use - Specification* - September 9, 1998.
- EN 50014:1997/prA2:1998, *Electrical apparatus for potentially explosive atmospheres - General requirements* - July 16, 1998.
- EN 61812-1:1996/prAA:1998, *Specified time relays for industrial use - Part 1: Requirements and tests* - August 16, 1998.
- EN 132400:1994/prA3:1998, *Sectional Specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (Assessment level D)* - July 16, 1998.
- ISO/DIS 3747, *Acoustics - Determination of sound power levels of noise sources using sound pressure - Comparison method for use in situ* - July 11, 1998.
- ISO/DIS 9386-1.2, *Power-operated lifting platforms for persons with impaired mobility - Rules for safety, dimensions and functional operation - Part 1: Vertical lifting platforms* - July 11,1998.
- ISO/DIS 12709, *Non-destructive testing - Ultrasonic inspection - Detection and evaluation of discontinuities by the immersed pulse-echo ultrasonic method* - July 31, 1998.
- ISO/DIS 13201, *Tower cranes - Tests and test procedures* - July 31, 1998.
- ISO/DIS 13787, *Thermal insulation products for building equipment and industrial installations - Determination of declared thermal conductivity* - July 4, 1998.
- ISO/DIS 14442, *Water quality - Guidance for algal growth inhibition tests with poorly soluble materials, volatile compounds, metals and waste water* - July 18, 1998.
- ISO/DIS 15534-1, *Ergonomic design for the safety of machinery - Part 1: Principles for determining the dimensions required for openings for whole body access into machinery* - July 18, 1998.
- ISO/IEC 9506-2, *Industrial automation systems - Manufacturing Message Specification - Part 2: Protocol specification* - July 11, 1998.
- prEN 303-1 REVIEW, *Heating boilers - Part 1: Heating boilers with forced draught burners - Terminology, general requirements, testing and marking* (for information).
- prEN 307 REVIEW, *Heat exchangers - Guidelines to prepare installation, operating and maintenance instructions required to maintain the performance of each type of heat exchanger* (for information).
- prEN 483, *Gas-fired central heating boilers - Type C boilers of nominal heat input not exceeding 70 kW* (for information).
- prEN 1330-5, *Non-destructive testing - Terminology - Part 5: Terms used in Eddy Current testing* (for information).

(Continued on Page 9)

Standards Actions (Continued from Page 8)

- prEN 12245, *Transportable gas cylinders - Fully wrapped composite cylinders* - June 25, 1998.
- prEN 12257, *Transportable gas cylinders - Seamless, hoop wrapped composite cylinders* - June 25, 1998.
- prEN 12668-2, *Non-destructive testing - Characterization and verification of ultrasonic examination equipment - Part 2: Probes* - September 9, 1998.
- prEN 13087-7, *Protective helmets - Test methods - Part 7: Flame resistance* - August 12, 1998.
- prEN 13135-1, *Cranes - Safety - Design - Requirements for equipment - Part 1: Electrotechnical equipment* - August 5, 1998.
- prEN 13139, *Aggregates for mortar* - September 9, 1998.
- prEN 13155, *Cranes - Safety - Non-fixed load lifting attachments* - September 16, 1998.
- prEN 13160-1, *Leak detection systems - Part 1: General principles* - July 12, 1998.
- prEN 13175, *Specification and testing for Liquefied Petroleum Gas (LPG) tank valves* - August 12, 1998.
- prEN 13179-1, *Test for filler aggregate used in bituminous mixtures - Part 1: Delta ring and ball test* - September 9, 1998.
- prEN 13204, *Double acting hydraulic rescue tools for fire and rescue service use* - August 5, 1998.
- prEN 13225, *Linear precast concrete structural elements* - September 9, 1998.
- prEN ISO 144-1 REVIEW, *Respiratory protective devices - Gas cylinder valves - Thread connections for insert connector* - September 2, 1998.
- prEN ISO 197-1 REVIEW, *Cement - Part 1: Composition, specifications and conformity criteria for common cements* - August 26, 1998.
- prEN ISO 3170, *Petroleum liquids - Manual sampling (ISO 3170:1988, including Amendment 1:1998)* - July 5, 1998.
- prEN ISO 3747, *Acoustics - Determination of sound power levels of noise sources using sound pressure - Comparison method for use in situ* (ISO/DIS 3747:1998) - August 9, 1998.
- prEN ISO 9308-1, *Water quality - Detection and enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method* (ISO/DIS 9308-1:1998) - July 13, 1998.
- prEN ISO 10432, *Petroleum and natural gas industries - Subsurface safety valve equipment - Specification* (ISO/DIS 10432:1998) - July 19, 1998.
- prEN ISO 12960, *Geotextiles and geotextile-related products - Screening test method for determining the resistance to liquids* (ISO/FDIS 12960:1998) (for information).
- prEN ISO 13787, *Thermal insulation products for building equipment and industrial installations - Determination of declared thermal conductivity* (ISO/DIS 13787:1998) - August 2, 1998.
- prEN ISO 14031, *Environmental management - Environmental performance evaluation - Guidelines* (ISO/DIS 14031:1998) - August 5, 1998.
- prHD 361 S3:1998, *System for cable designation* - August 16, 1998.

The following newly published international standards are available from ANSI:

- ISO 2503:1998, *Gas welding equipment - Pressure regulators for gas cylinders used in welding, cutting and allied processes up to 300 bar.*
- ISO 6016:1998, *Earth-moving machinery - Methods of measuring the masses of whole machines, their equipment and components.*
- ISO 5167-1/AMD1:1998:1998, *Measurement of fluid flow by means of pressure differential devices - Part 1: Orifice plates, nozzles and Venturi tubes inserted in circular cross-section conduits running full - Amendment 1.*
- ISO 9241-7:1998, *Ergonomic requirements for office work with visual display terminals (VDTs) - Part 7: Requirements for display with reflections.*
- ISO 11375:1998, *Building construction machinery and equipment - Terms and definitions.*
- ISO 11907-1:1998, *Plastics - Smoke generation - Determination of the corrosivity of fire effluents - Part 1: Guidance.*
- ISO 11997-1:1998, *Paints and varnishes - Determination of resistance to cyclic corrosion conditions - Part 1: Wet (salt fog)/ dry/ humidity.*
- ISO 13261-1:1998, *Sound power rating of air-conditioning and air-source heat pump equipment - Part 1: Non-ducted outdoor equipment.*
- ISO/TR 10722-1:1998, *Geotextiles and geotextile-related products - Procedure for simulating damage during installation - Part 1: Installation in granular materials.*

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in ASTM *Standardization News.* Orders for subscriptions or single copies of ASTM *Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). Additional information on ASTM activities is available on the ASTM Internet site (**http://www.astm.org**). The following listings are extracted from ASTM *Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination:
(the due date for all items is June 10, 1998).

- New Standard, *Test Method for Rub Abrasion Mar Resistance of High-Gloss Coatings* (Ref. Z4875Z).
- New Standard, *Specification for Gypsum Board* (Ref. Z5357Z).
- New Standard, *Tables for Reference Solar Spectral Irradiance at Air Mass 1.5 Direct Normal and Hemispherical for a 37 Tilted Surface* (Ref. Z5985Z).

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Standards Actions (Continued from Page 9)

- New Standard, *Guide for Testing of Reactor Dosimetry in Standard and Reference Neutron Fields* (Ref. Z6014Z).
- New Standard, *Guide for Benchmark Testing of Light Water Reactor Calculations* (Ref. Z6015Z).
- New Standard, *Practice for Application of Aggregated Polymer Finish to Portland Cement-Based Plaster* (Ref. Z7074Z).
- New Standard, *Practice for Use of Thermoluminescence-Dosimetry (TLD) Systems for Radiation Processing* (Ref. Z7132Z).
- New Standard, *Guide for Cleaning, Flushing, and Purification of Steam, Gas, and Hydroelectric Turbine Lubrication Systems* (Ref. Z7330Z).
- C 296-97, *Specification for Asbestos-Cement Pressure Pipe* (revised standard).
- C 1082-90(1994), *Specification for Asbestos-Cement Flat Sheet for Cooling Tower Fill* (revised standard).
- C 1120-91(1995), *Test Method for Wash Test of Asbestos* (revised standard).
- C 1145-97, *Terminology of Advanced Ceramics* (revised standard).
- D 1566-98, *Terminology Relating to Rubber* (revised standard).
- E 692-79(1993) (includes change to title), *Test Method for Cesium-137 in Irradiated Nuclear Fuels by High-Resolution Gamma-Ray Spectral Analysis* (revised standard).
- E 957-95, *Terminology Relating to Geothermal Energy* (revised standard).
- E 1038-93, *Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact With Propelled Ice Balls* (revised standard).
- E 1040-93, *Specification for Physical Characteristics of Non-Concentrator Terrestrial Photovoltaic Reference Cells* (revised standard).
- E 1524-93, *Test Method for Saltwater Immersion and Corrosion Testing of Photovoltaic Modules for Marine Environments* (revised standard).

The following newly published standards are available from ASTM:

- B 163-97, *Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes* (revised standard).
- C 1372-97, *Specification for Segmental Retaining Wall Units* (new standard).
- D 4597-97 (Includes change to title), *Practice for Sampling Workplace Atmospheres to Collect Gases or Vapors With Solid Sorbent Diffusive Samplers* (revised standard).
- D 5424-97, *Test Method for Smoke Obscuration of Insulating Materials Contained in Electrical or Optical Fiber Cables When Burning in a Vertical Cable Tray Configuration* (revised standard).
- D 6104-97, *Practice for Determining the Performance of Oil/Water Separators Subjected to Surface Run-Off* (new standard).
- D 6184-97, *Test Method for Oil Separation From Lubricating Grease (Conical Sieve Method)* (new standard).
- G 40-98, *Terminology Relating to Wear and Erosion* (revised standard).
- G 111-97, *Guide for Corrosion Tests in High Temperature or High Pressure Environment, or Both* (revised standard).
- G 148-97, *Practice for Evaluation of Hydrogen Uptake, Permeation, and Transport in Metals by an Electrochemical Technique* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Nuclear Society
Office: 555 North Kensington Avenue
La Grange Park, IL 60526-5592
Fax: 708-352-6464
Contact: Shawn Coyne-Nalbach, **scoyne-nalbach@ans.org**

- ANS 2.19, *Establishing Site-Related Parameters for Site Selection and Design of an Independent Spent Fuel Storage Installation (Dry and Water Pool Types)* (revision of ANSI/ANS 2.19-1981 (R1990)).
- ANS 2.30, *Assessing Capability for Surface Faulting at Nuclear Facilities* (new standard).
- ANS 6.1.2, *Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculation for Nuclear Power Plants* (revision of ANSI/ANS 6.1.2-1989)
- ANS 8.14, *Subcritical Limits of Fissile Materials with Neutron Absorbers for Criticality Control* (new standard).

National Electrical Contractors Association (NECA)
Office: 3 Bethesda Metro Center, Suite 1100
Bethesda, MD 20814
Fax: 301-215-4500
Contact: H. Brooke Stauffer, **hbs@necanet.org**

- NECA/IESNA 502, *Recommended Practice for Installing Industrial Lighting Systems* (new standard).

Underwriters Laboratories, Inc.
Office: 333 Pfingsten Road
Northbrook, IL 60062-2096
Fax: 847-509-6217
Contact: Mitchell Gold, **goldm@ul.com**

- UL 32, *Standard for Safety for Metal Waste Cans* (revision of ANSI/UL 32-1994).

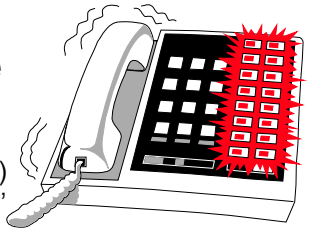
Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email **Richard.Serbu@eh.doe.gov**. If you have any questions or comments on DOE standards projects, please contact Don Spellman, Oak Ridge National Laboratory (ORNL), 423-574-7891, FAX 423-574-0382, Email **spellmandj@ornl.gov**.

Addresses: To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423- 574-0382, Email **mmf@ornl.gov**.

Technical Standards Activities: Please provide information on the status of DOE technical standards being prepared or coordinated to the TSPO at 423-574-7886, Email **lj8@ornl.gov**.

Technical Standards Managers' Committee Meets On-Line



The Department of Energy (DOE) Technical Standards Managers' Committee (TSMC) met on April 15, 1998, via a telephone conference conducted from DOE headquarters. Approximately 30 individuals attended, including Technical Standards Managers (TSMs) and program staff from Headquarters, operations and field offices, laboratory and management and operating (M&O) contractors, and information systems program staff from the Office of Scientific and Technical Information (OSTI). Highlights from the meeting follow.

Database for reference standards sets - several telecon participants thought that a central database designed to give a common set of standards that could be used by all sites would benefit TSM activities. Bob Wayland accepted an action item to lead in conducting a survey to determine the value of such an effort.

Status of program guidance documents - the revision to OMB Circular A-119, *Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities*, is now completed and may be accessed in the Federal Register from the Government Printing Office home page. OMB A-119 will also be placed on the TSP Home Page. Drafts of O 252.1, *Technical Standards Program*, and G-252.1-1, *Implementation Guide for the Technical Standards Program*, were scheduled for a late spring review by the TSMs.

"De facto" technical standards documents - the production of de facto documents throughout all of DOE continues to be a problem. All TSMs were urged to be on the lookout for documents generated outside of the TSP.

Program Success Indicators - all TSMs were asked to help the Technical Standards Program Office (TSPO) develop a set of Program Success Indicators as soon as possible. This set could include TSP performance objectives with a definition of corresponding quantification measures, such as the number of converted standards and/or the number of DOE standards being used (e.g., in the writing of procedures) at each site. A breakout session addressing this need was suggested for the August 1998 TSMC meeting. The TSP Strategic Plan goals will provide good background information for participants in this breakout session. The Plan will be placed on the Home Page so that TSMs may review it in preparation for the breakout session.

Alternate communications technologies - various communications technologies are being investigated to augment the limited opportunities for face-to-face TSMC meetings. A committee of selected TSMs will be set up to discuss the available options.

DOE Topical Committee (TC) activities - two of the newest TCs being added are Construction Safety and Hoisting & Rigging. Other TC activities in progress include the Subsurface Contaminants Focus Area (SCFA) and Air Monitoring Users Group. There are now 16 "official" TCs, with others being considered.

TSP Home Page - a "pop-up" software package is being tested with the intent of providing this feature on the home page. The TSMC was asked to provide feedback to Rick on what additional features they would like to see on the TSP Home Page.

Standards writing workshop - a one-day workshop sponsored by DoD and taught by the American National Standards Institute on standards writing will be held on June 10, 1998. TSMs from DP, NE and EM were urged to attend.

The teleconference afforded many TSMs the opportunity to express their needs and receive real-time responses to their requests and suggestions. The Technical Standards Program Office thought that the time was well spent, and provided a much needed forum that contributed to the forward momentum of the TSP.

Topical Committee Developments (Cont'd from Page 4)

educate and enhance awareness of DOE laboratory accreditation issues. It is not to form yet another accreditation activity. Instead, the Committee will act as an information resource for DOE activities that can benefit from accreditation. This will be accomplished by:

- identifying accreditation issues for DOE,
- identifying how to facilitate resolution of DOE laboratory accreditation issues, and
- serving as a DOE Topical Committee on accreditation for the Technical Standards Program (TSP).

The Committee will promote a coordinated accreditation program for DOE by providing a network for sharing information and resources and encouraging high-quality, cost-effective accreditation services for DOE programs. Membership in the Committee is open to all DOE personnel and DOE contractors involved with accreditation. One of the important considerations to be discussed at the first annual meeting will be the role of DOE in the recently formed National Cooperation for Laboratory Accreditation (NACLA).

For more information, please contact: Dr. Sal Scarpitta, Brookhaven National Laboratory (BNL), 516-344-3630, **scarpitt@mail.sep.bnl.gov**, Bob Wayland (SNLA), 505-845-9771, **jrwayla@sandia.gov**, or Don Ragland (SNLA), 505-845-9623, **dragla@sandia.gov**. This article is also available for viewing on the TSP Internet site: **http://apollo.osti.gov/html/techstds/genframe.html**.

DOE Backup Power Working Group

DOE Backup Power Working Group

After a hiatus of over a year, the DOE Backup Power Working Group (BPWG) held its ninth meeting in May 12-14, 1998, in Idaho Falls, Idaho. The BPWG fosters safe, practical, and effective testing, main-

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Fire Safety Committee Establishes 1998 Agenda

Dennis Kubicki, Office of Worker Health and Safety (EH-51)

The Department of Energy (DOE) Fire Safety Committee, at its December 1997 meeting, agreed to pursue three initiatives in Calendar Year 1998. These initiatives are intended to address identified "needs" relating to the effective management of fire safety and emergency services programs across the DOE complex.

The first is the development of a revised series of fire protection program "performance measures." Historically, the Department has measured fire losses, fire loss rates, sprinkler system performance and recurring fire protection program costs. The measures were collected on the basis of requirements contained in DOE Orders, such as DOE O 231.1, "Environment, Safety and Health Reporting." It was concluded by the Committee that the continuing success of our fire protection programs has rendered these historic measures less than effective for use as tools in judging the continuing management of program activities. Additionally, the use of non-normalized costs may, in fact, result in misperceptions with regard to the ability to contain fire protection and emergency response costs. Consequently, an expanded set of measures was deemed necessary.

A draft set of performance measures has been distributed by the Chairman for review and comment. The final set will be presented for Committee approval at the annual DOE/Contractor Fire Safety Workshop in Idaho Falls, Idaho during the week of June 8-12, 1998. Once approved, it is anticipated that these measures will be distributed to the Complex as "guidance" to aid in satisfying the requirements of DOE Order 210.1, "Performance Measures."

Second, the Committee decided to encourage sites to adopt revised (more liberal) fire protection system inspection testing and maintenance requirements, similar to those that have been implemented at Hanford, INEEL and at the three DOE sites in Oak Ridge. A review of the impact of these revised requirements revealed that a significant reduction in costs has occurred with no significant degradation of system performance. In fact, in some instances, fire protection system performance improved with the adoption of the more liberal (less than those required by the NFPA) criteria. Toward this end, a draft guidance document, which contains in matrix form the essential elements of the above-noted site programs, has been developed by Leo Derderian of the Office of Engineering Assistance and Site Interfaces, EH-34. A copy of the document has been distributed to all fire safety committee members for review and comment. A final draft will be presented for Committee approval at the fire safety workshop.

The third initiative is the development of a DOE Fire Protection "White Paper." This reflects the results of a year-end (1997) review by the Committee on the state of the DOE Fire Protection Program. It was noted that, based on fire losses and fire loss rates since the 1960s, the Program is successful. However, to remain successful the Program needs a firm management commitment to fire safety, effective management systems, an adequate staff of qualified and trained fire safety and emergency services professionals, and documented and institutionalized site fire safety programs that conform with BOTH industry and DOE fire safety criteria. These fundamental aspects have not been universally implemented and maintained across the Complex. The Committee decided that it was the responsibility of the Committee to identify significant weaknesses in the management of the Program and specify remedies which, if implemented, would help assure the success of the DOE Fire Safety Program into the future.

A list of fire safety program "issues" was developed, along with recommendations for action, based on discussions at the December meeting. This list was reviewed by the Committee and has subsequently been incorporated into a draft "Secretarial Memorandum" on fire safety. Final action on this memorandum is pending.

Topical Committee Developments (Continued from Page 11)

tenance, operation, design, and installation of systems and equipment used to provide backup electrical power at DOE facilities. Participation in the BPWG has been positively linked to increased availability of sites' backup power sources, such as diesel generators, batteries, and uninterruptible power supplies.

The group would like to increase its knowledge of reliability principles applied to increasing the performance and availability of existing backup power systems at DOE facilities. We would welcome subcommittee participation from the DOE community to complement our existing members' expertise.

Since the meeting was actually in progress as *The Standards Forum* went to press, news from the meeting could not be included here. However, the group maintains an active Web site at **http://www3.dp.doe.gov/CTG/bpwg/bpwg.htm**, where information about the group and its meetings can be found. News from the latest meeting should be available at the site by now. You can also learn more about the group, or request assistance from its members, by contacting John Fredlund at 301-903-3059, **fredlund@dpmail.dp.doe.gov**.

Topical Committee on Environmental Management Systems

On June 25, 1998, the Office of Environmental Policy and Assistance (EH-41) will sponsor a one-day workshop to establish a "DOE Topical Committee on Environmental Management Systems (EMS)." The workshop will meet from 8:30 a.m. to 5:00 p.m. in Room BE-069 of the DOE Forrestal Building, 1000 Independence Avenue SW, Washington, D.C. There is no fee for attendance, but prior registration is requested. Suggestions for agenda topics and any comments may be sent to Ross Natoli, 202-586-1336, FAX 202-586-0955, **Ross.Natoli@eh.doe.gov**. To register for the workshop, contact Jean Shorett, 202-646-7809, FAX 202-646-5233, **je_shorett@pnl.gov**.

Avoid Environmental Embarrassments (Continued from Page 1)

(and other external interested parties) on the environmental aspects and impacts of its operations. Table 1 lists the entire ISO 14000 "family" of standards associated with managing a company's environmental affairs, including ISO 14001.

With ISO 14001 in place, management, of necessity, would have considered the impact of cutting the trees on the community. The company would have had a chance to anticipate the impact as well as an opportunity to develop a plan to head off community protests. While explaining the necessity for the new construction, for example, management could have offered to replace the trees with varieties chosen by the community.

An obvious objection might be: "We don't need ISO 14000 for that. We always think about the environmental impact of what we do and work things out with the community."

It's a relevant objection. Most well-run power companies would have anticipated this problem (although the plant on which this example is based did not). In fact, most well-managed companies will already be doing much of what ISO 14001 requires, especially in highly regulated industries.

TABLE 1
THE ISO 14000 SERIES*

Standard	Title	Status
14001	Environmental management systems—specifications with guidance for use	ISO
14004	Environmental management systems—general guidelines on principles, systems and supporting techniques	ISO
14010	Guidelines for environmental auditing—general principles of environmental auditing	ISO
14011	Guidelines for environmental auditing—audit procedures—auditing of environmental management systems	ISO
14012	Guidelines for environmental auditing—qualification criteria for environmental auditors	ISO
14020	Goals and principles of all environmental labeling	DIS
14021	Environmental labels and declarations—self declaration environmental claims—terms and definitions	DIS
14022	Environmental labels and declarations—self declaration environmental claims—symbols	CD
14023	Environmental labels and declarations—self declaration environmental claims—testing and verification	WD
14024	Environmental labels and declarations—environmental labeling type I—guiding principles and procedures	DIS
14025	Type III labeling	Pre
14031	Evaluation of environmental performance	CD
14040	Life cycle assessment—principles and framework	ISO
14041	Life cycle assessment—life cycle inventory analysis	DIS
14042	Life cycle assessment—impact assessment	CD
14043	Life cycle assessment—interpretation	CD
14050	Terms and definitions—environmental management vocabulary	DIS

*These standards are being developed by ISO TC 207. The status column lists each standard's status as of November 1997. All ISO standards proceed through the following sequence:

Pre = Preliminary drafting
CD = Committee draft
ISO = ISO standard
WD = Working draft
DIS = Draft international standard

(Table reprinted by permission of Excel Partnership Inc.)

Management Aid

ISO 14001 brings a power company's existing activities and systems together to form the basis for an integrated system that can improve and streamline business processes, rather than adding to the growing complexity of programs. ISO 14001 can actually help companies to consolidate all existing demands—from communities, employees, stockholders and regulators—under a single, cohesive management system, with bottom-line benefits.

Rather than competing with existing programs and requirements, ISO 14001 describes a straightforward approach to managing them. The standard follows a logical business process of establishing policy, planning, implementing and operating systems, checking and measuring progress and reviewing systems so that they can continually improve. For power companies, integrated, systematic environmental management will result in reduced waste, optimized fuel usage and increased safety.

Motivation Increases

In addition to the internal improvement benefits possible from using ISO 14001, there are growing indications that the international EMS standard may yield external benefits as well:

- *Regulatory relief. Many EPA and state voluntary programs have begun to recognize the value of an EMS in ensuring environmental compliance and improvement. These programs provide various levels of regulatory relief in exchange for ISO 14001 registration plus assurance of sound environmental performance.*

(Continued on Page 14)

Avoid Environmental Embarrassments
(Continued from Page 13)

- *Marketing/public relations. The power industry is acutely aware of the importance of good community relations and ISO 14001 can help to support a strong public commitment to environmental improvement.*
- *Competitive advantage. With deregulation, and increased competition, companies with ISO 14001 will have a competitive edge when making service proposals to community groups.*
- *Preferred status for insurance and banking. Many insurance and financial companies are beginning to look at ISO 14001 as an indication of reduced risk, potentially resulting in better insurance rates or increased access to capital.*

What to Do

The best approach for most companies is to begin by simply using the ISO 14001 standard to evaluate and improve current systems. Later, if third-party registration seems either necessary or desirable, companies will have their systems in good shape and will simply need to have them audited. Company management should begin with these steps:

• Get more information. Obtain copies of ISO 14001 and ISO 14004 (the EMS guidance standard). Seek out ISO 14001 information and expertise within the company, from books and articles, and from well-regarded experts.

• Conduct a gap assessment. Compare current systems against the requirements of the ISO 14001 standard. Use internal or external resources who fully understand the flexibility and interpretation of the standard and are familiar with the types of systems the company already has in place, such as ISO 9001/2.

• Plan to improve. Based on the results of the gap assessment, determine what elements of current systems will need improvement in order to meet the requirements of ISO 14001. At the same time, consider how existing systems can be streamlined or integrated.

• Watch for registration drivers. While using ISO 14001 to improve existing programs, keep an eye on the types of potential drivers for registration mentioned above. Talk with local regulatory agencies, look into EPA and state voluntary programs, watch competitors and keep an open dialogue with the local community.

ISO 14000 Q&A

Q. What is ISO 14000?

A. ISO 14000 is a series of voluntary international standards covering environmental management tools and systems developed by the International Organization for Standardization (ISO). Best known for producing the ISO 9000 series of quality management system standards, ISO is a Swiss based, worldwide organization of national standards bodies from 111 countries.

Q. What is ISO 14001?

A. ISO 14001 is the standard a company will use to establish its own environmental management system. It both provides an overall framework for environmental management and integrates that framework with overall business management activity. It recognizes that all management systems must provide a defined and organized approach to relevant activities while also meeting bottom-line business needs.

Q. What is an ISO 14001 based environmental management system?

A. ISO 14001 contains common elements required in all effective management systems: clearly defined policy and objectives, clear-cut responsibilities, documented systems, ongoing training, records, document control, control of critical processes, internal audits, a correction mechanism, management reviews and continual improvement.

Q. Does ISO 14001 establish environmental performance requirements?

A. No. The standard was written to apply to organizations of all types and sizes in diverse geographical, cultural, social and economic situations. It seeks to balance socioeconomic and business needs with support of environmental protection and prevention of pollution.

Q. How does ISO 14000 describe an Environmental Management System (EMS)?

A. The auditable environmental management system specified in ISO 14001 is a model of brevity, clarity and reason. Its lucidity will be particularly striking for those familiar with the somewhat rambling organization of ISO 9001, the specification for the quality management series.

Q. What is registration? Accreditation?

A. Registration occurs when an organization hires an official, independent third-party auditing body, called a registrar, to assess its system to ensure that it meets the requirements of a particular standard. Registrars are typically approved or accredited by some national accreditation body. In the United States, two authoritative organizations, the American National Standards Institute (ANSI) and the Registrar Accreditation Board (RAB) have joined together to create the National Accreditation Program (NAP).

Q. Does ISO 14001 require third party registration?

A. ISO 14001 does not require third party registration, but it is written to accommodate the process. The standard's requirements can be met either through self-declaration or assessed and registered by an accredited third party registrar, or merely used as an internal benchmark.

Address Changes - ***Please notify us of any change in your mail address in order to assure that you will continue to receive The Standards Forum. Even minor changes, e.g. in your Mail Stop, can cause it to be returned by local mail services, and will result in deletion from our address database!***

Upcoming Meetings

June 7–11, 1998

1998 American Nuclear Society (ANS) Annual Meeting

Opryland Hotel - Nashville, Tennessee

Theme: *Enhancing the Quality of Life Through Nuclear Science and Technology*

Topics include "Nuclear Criticality Safety," "Nuclear Installations Safety," and "Fuel Cycle and Waste Management."

For more information, contact General Chair Thomas Row, 114 Nebraska Avenue, Oak Ridge, TN, 37830, 423-574-5974, FAX 423-576-6730, **thr@ornl.gov**, or the ANS home page, **http://www.ans.org**.

June 15–19, 1998

1998 Safety Analysis Workshop

Olympia Park Hotel and Conference Center - Park City, Utah

Theme: *Integrating Safety Analysis into Safety Management*

Sponsored by the Safety Analysis Working Group (SAWG) of the DOE Energy Facility Contractors Group (EFCOG). The focus of the workshop is on safety analysis process work and planning.

For more information, contact John W. Rice, Jr., Workshop Chair, 208-526-4206, E-mail **wjr@inel.gov**, or the EFCOG/SAWG home page at **http://www.llnl.gov/efcog/**.

July 26–30, 1998

American Society of Mechanical Engineers/Japan Society of Mechanical Engineers Joint Pressure Vessel and Piping (PVP) Conference

San Diego Sheraton Hotel on Harbor Island, San Diego, California

The highlight topic for the Conference is "International PVP Technology For The Next Century.**"**

For more information, check the ASME home page at: **http://www.asme.org/index.html**.

August 3–6, 1998

25th DOE/NRC Nuclear Air Cleaning and Treatment Conference

Minneapolis Marriott City Center Hotel - Minneapolis, Minnesota

Sponsored by the U.S. Department of Energy, U.S. Nuclear Regulatory Commission, International Society of Nuclear Air Treatment Technologies, and The Harvard Air Cleaning Laboratory. The conference is a forum for the presentation of research results, design data , and industry-related operational programs associated with nuclear air and gas cleaning and treatment. Topics include "Filters and Filter Testing," Nuclear Codes and Standards," "ASME Code on Nuclear Air and Gas Treatment," "Adsorbers and Adsorbents," and "Waste Processing Air Cleaning." Reviews will be presented covering progress in nuclear air and gas cleaning technologies. Each review will introduce a session of workshops and contributed papers on the same or related topics. The meeting will be preceded on August 1-2, 1998, by short courses and tutorials.

For more information, contact Melvin W. First, Sc.D., Conference Chairman, Harvard University Air Cleaning Laboratory, 665 Huntington Avenue, Boston, MA 02115-6021, 617-432-1164, FAX: 617-432-3349, **mfirst@hsph.harvard.edu** or visit the conference Web site at **http://www.nrc.gov/NRC/REACTOR/call.html**.

August 4-6, 1998

1998 Federal Technical Standards Workshop

Loews L'Enfant Plaza Hotel - Washington, D.C.

Theme: *Standards Management - A World of Change and Opportunities* (see related article in this newsletter)

For information on the workshop technical program, contact Don Williams, Oak Ridge National Laboratory (ORNL), 423-574-8710, **dw5@ornl.gov**. For general information and registration, contact Amy Bush, ORNL, 423-576-2395, **az3@ornl.gov**, or refer to the workshop registration Internet site (**http://www.ornl.gov/etd/tsp/98workshop.htm**).

September 21–25, 1998

1998 World Standards Week

Sheraton City Centre - Washington, D.C.

The 1998 World Standards Day (WSD) event is planned for Wednesday, September 23, 1998, and will include a reception and dinner. The winner of the WSD international technical paper competition ($2500 award) will be announced during the dinner. The theme of the paper competition is: "Standards for Fee or Free: What 'R" the Consequences." The paper competition is intended to focus on the domestic and international debate over the sales, pricing, and availability of standards. Rules for the paper competition may be obtained at URL **http://www.ses-standards.org/paper_competition.html**.

For more information, contact Stacy Leistner, ANSI Staff, 212-642-4931, Email **sleistne@ansi.org**, or Yvonne Coleman, ANSI Staff, 212-642-4922, Email **ycoleman@ansi.org**, or check URL **http://web.ansi.org/rooms/room_5/**.

October 12-23, 1998

International Electrotechnical Commission (IEC) National Committee 1998 General Meeting

George R.Brown Convention Center - Houston, Texas

Held in conjunction with the International Conference and Exhibit of ISA, the international society for measurement and control. ElectroTech 98, an exhibition dedicated to the advancement of the electrical and electronics industries, will also be held in conjunction with the IEC General Meeting.

(Continued on Page 16)

The OSTI Corner

Evolution of the DOE Technical Standards Home Page

By Madelyn Wilson

As I reflect on the evolution of the DOE Technical Standards Home Page, I am awed by the technological advances of the Internet and its impacts on the Technical Standards Program (TSP) over a relatively short period of time, in all, three and a half years. When the Office of Scientific and Technical Information (OSTI) was first approached by the Performance Assurance Project Office (PAPO) at the Oak Ridge National Laboratory to convert from the traditional hard copy to an electronic environment, it proved to be an omnificent task and a tremendous adventure. It reminded me of man's journey to the moon and the first walk in space. The Technical Standards Program was charting a new course as well as one that did not have a proven track record. However, Headquarters, PAPO, and OSTI felt this channel had to be pursued, and we were determined to be successful. All of us were keenly aware of the vision and risk associated with the birth of the Internet as the main on-line communication device and dissemination media for technical standards documents and information.

The development of the DOE Technical Standards Home Page was guided by three principles: (1) simplicity, (2) functionality, and (3) brevity. As with any developmental project undertaken at OSTI, our approach was to minimize the number of "trial and error" steps by relying upon a proven technique that would provide the greatest potential for success. Our basic strategy was to simply outline subject areas of interest in a logical and coherent structure. However, the main thrust of the project became the posting of DOE technical standards. This activity proved to be the biggest challenge. We were faced with identifying a software application that would mirror the on-line document exactly with the hard copy. This was critical to ensure the authenticity of the on-line copy as an official hard copy document. During the early 1990's, the electronic format of choice was HTML and/or SGML. The Technical Standards Program made an unprecedented move when it deviated from HTML and elected to use PDF. At that time, I do not think we fully realized the implication of our action by using PDF. The Technical Standards Program was truly at the technological forefront in Web development. PDF was a tremendous cost savings to the Program, and it greatly reduced document production time.

The next hurdle was informing users of the adoption of the Internet as a medium for on-line communication, downloading, and printing hard copy documents. More importantly, users needed to feel comfortable with the changes in the work process and transacting business via the Internet. Also, the language barrier and system requirements had to be effectively communicated to users in order to encourage them to view the Internet as a value-added resource for information on DOE technical standards. It is sometimes difficult to comprehend that in 1994, the "new age" vocabulary consisted of terms such as browsers, URL addresses, PDF, Adobe Acrobat Reader, Internet, navigation, platform compatibility, etc., which have now been transformed into today's main stream jargon.

As the dynamic procession of the Internet continues, so does the DOE Technical Standards Home Page; the utilization of Web technology has allowed us to simplify the research and retrieval of critical business information that directs and influences the decision making process for DOE Technical Standards Managers. The Home Page in many ways resembles NASA's Pathfinder in that the Office of Scientific and Technical Information in joint partnership with PAPO and Headquarters will rely upon advanced technological enhancements in the configuration of the architectural hierarch of information. With the approach of the year 2000, the TSP is evaluating and planning the progression of the Home Page to the next level of development. The futuristic Web site may encompass development in the areas of Precision Graphics Markup Language, high speed performance search and retrieval capabilities, expandable on-line community discussion groups with teleconference capability, virtual reference desk, etc. As with any innovation, the definitive end of the Internet has not been achieved nor defined. The Internet world is as vast, complex, and unknown as the natural universe. In like manner, the DOE Technical Standards Home Page also shares the same vastness and complexity in the new frontier. As a result, it is entrusted upon the Technical Standards Managers and users to delineate limits and augment the electronic universe to control and direct the flow of information management for the DOE Technical Standards Program.

Upcoming Meetings (Continued from Page 15)

For more information, contact Charles T. Zegers, Secretary, USNC, American National Standards Institute, 11 West 42nd Street, New York, NY 10036, 212-642-4936, FAX 212-398-0023, **czegers@ansi.org**.

November 16-17, 1998

SES/IFAN Conference

Coronado Springs Resort, Walt Disney World, Orlando, Florida

Theme: *Standards for Global Markets*

This conference is being cosponsored by the International Federation for the Application of Standards (IFAN) and the Standards Engineering Society (SES).

For more information, check the Internet at **http://www.ses-standards.org/conference.html**.

***The Standards Forum* and *Standards Actions* are a part of the Technical Standards Program (TSP) Home Page, which features lists of Technical Standards, lists of personnel involved in TSP and non-Government standards activities, hot links to other technical standards organizations, and much more!**

You can catch the "early editions" at our home page: http://apollo.osti.gov/html/techstds/techstds.html

Standards Management—A World of Change and Opportunities

August 4–6, 1998 • Loews L'Enfant Plaza Hotel • Washington, D.C.

Abstract

On August 4–6, 1998, the first-ever Federal Technical Standards Workshop will be held at the Loews L'Enfant Plaza Hotel in Washington, D.C. Federal agencies/departments sponsoring the workshop include the Department of Energy (DOE – workshop host), the National Institute of Standards and Technology (NIST), the Environmental Protection Agency (EPA), the National Aeronautics and Space Administration (NASA), and the Food and Drug Administration (FDA). In addition, the Partnership in Reliability, Maintainability, and Supportability (RMS) Standards (frequently referred to as the "RMS Partnership"), a communication-educational consortium of professional societies, industrial associations, and government agencies working together to help implement acquisition/standardization reform, will serve as a cosponsoring entity for the workshop.

The theme for this workshop is *Standards Management—A World of Change and Opportunities*. The workshop's goal is to further the implementation of the National Technology Transfer and Advancement Act of 1995 (Public Law 104-113) through the sharing of standards management success stories, "lessons learned," and emerging initiatives within the Executive Branch of the Federal Government. The target audience for this workshop includes Federal agency/department and contractor personnel and representatives of standards developing organizations that either use technical standards in their work for the Federal Government or participate in standards writing/management activities in support of the missions and programs of Federal agencies/departments. As with previous standards workshops sponsored by the DOE, views on the technical subject areas under the workshop theme will be solicited from and provided by agency Standards Executives and standards program managers, voluntary standards organizations, and the private sector.

These workshops continue to serve as an effective medium for communicating information to all organizations and disciplines within the Executive Branch of the Federal Government on technical standards activities and related standardization initiatives. Make plans to attend this "first-of-a kind" event—it will be an interesting and informative experience!

Agenda

NOTE: The 1998 Federal Technical Standards Workshop convenes on Tuesday, August 4, 1998, at 1 p.m. EDT. Prior to the workshop, a number of agency-specific working meetings and/or training activities will be conducted at the workshop site.

Monday, August 3, 1998

9:00A–5:00P: **DOE Technical Standards Managers' Committee (TSMC) meeting**

3:00P–5:00P: **Workshop Registration**

Tuesday, August 4, 1998

8:30A–2:00P: **Workshop Registration**

8:30A–11:30A: **TSMC Meeting – Conduct of Technical Standards Program (TSP) Tutorial**

8:30A–12:00P: **DOE Meeting: TSP Interface Issues with Standards Developing Organizations and DOE Topical Committees**

8:30A–12:00P: **Meeting – RMS Partnership**

9:30A–11:30A: **Meeting – Interagency Committee on Standards Policy**

12:00P–1:00P: **Lunch** (on your own)

1:00P–1:45P: **Workshop plenary session convenes**

– Opening remarks: **Richard Serbu**, Manager, Technical Standards Program, Office of Environment, Safety and Health, DOE

– Introduction of keynote speaker: **Richard Black**, Standards Executive and Director, Office of Nuclear Safety Policy and Standards, Office of Environment, Safety and Health, DOE

– Keynote Speaker: **Peter Brush**, Acting Assistant Secretary for Environment, Safety and Health, DOE

1:45P–3:15P: **Session 1: Standards Management – A World of Change** – The rate of change in our global village is unprecedented and continues to accelerate. Like the private sector, the Federal Government has been challenged to adapt and respond to the new culture of "change management." Standards management practices can and must play a role in this response. The speakers in this session will discuss some of the changes being experienced by and responses employed for the government business paradigm and the benefits derived or expected.

Moderator, **Jeff Feit**, Office of Environment, Safety and Health, DOE. Invited speakers:

– (Representative), National Performance Review (NPR) - National Partnership for Reinventing Government

– **Don Marlowe**, Food and Drug Administration (FDA) - Implementation of the Food and Drug Modernization Act

Agenda

– **Marialane Schultz**, Department of Defense (DoD) - Application of the "Single Process Initiative"

3:15P–3:30P: **Break**

3:30P–5:00P: **Session 2: Standards Management – A World of Opportunities** – The new culture of change management provides many opportunities for success in national and international markets. The chances for success increase when standards management is part of your business' strategic vision and work infrastructure. The speakers in this session will discuss how a proactive standards management strategy directly relates to their company's (and our Nation's) success.

Moderator, **Jeanette Helfrich**, Office of the General Council, DOE. Invited speakers:

– **Henry Line**, AMP, Inc. - The role and influence of standards in the global marketplace

– **Jane Schweiker**, American National Standards Institute (ANSI) - ANSI's role in a national standards strategy and other critical national standards infrastruture elements

– **Michael G. Gorman**, Ameritech, Inc. - Savings realized through the strategic use of standards

5:00P–6:00P: **Reception** (hosted by Lockheed Martin Corporation)

Wednesday, August 5, 1998

8:30A–10:00A: **Session 3: OMB Circular A-119 Implementation** – The February 10, 1998, revision to OMB Circular A-119 provides formal guidance to Federal agencies and departments on the implementation of the standards management provisions of Public Law 104-113. The speakers in this session will discuss the new guidance in the revised circular and expected agency/department actions.

Moderator, **Krista Johnsen Leuteritz**, Office of Standards Services, National Institute of Standards and Technology (NIST). Invited speakers:

– **Virginia Huth**, Office of Management and Budget (OMB) - New OMB Circular A-119

– **Belinda Collins**, NIST - NIST implementation plan for OMB Circular A-119

– **Eric Wilkinson**, Environmental Protection Agency (EPA) - EPA's implementation of OMB Circular A-119

10:00A–10:15A: **Break**

10:15A–11:45A: **Session 4: OMB Circular A-119 Implementation (continued)** – Breakout groups will be organized from the plenary session participants to discuss agency reporting structures/methods for complying with OMB Circular A-119, including success stories, problems encountered, and lessons learned. The breakout sessions will conclude at 11:15, and a spokesperson from each session will summarize the results of the breakout discussions.

Agenda

12:00P–1:00P: **Lunch** (on your own)

1:00P–2:30P: **Session 5: Strategic Standardization** – "Best in Class" is not a random chance occurrence. Similar to other business processes, the standards management activity is most effective when its role is recognized in company or organization business plans and supported through active senior management involvement. The speakers in this session will discuss example situations of searching for or applying a strategic approach to standards management.

Moderator, **Bob Girton**, Lockheed Martin Idaho Technologies Company. Invited speakers:

– **Bob Walsh**, Advanced Action Associates - Benchmarking of standards management processes

– **Diego Betancourt**, Polaroid - Standards management systems and the influence of strategic standardization

– (Representative), Raytheon Systems - Reference standards approaches taken by industry in the public and private sectors

2:30P–2:45P: **Break**

2:45P–5:00P: **Session 6A: Voluntary Standards Activities of Interest to Federal Agencies** – Representatives of voluntary standards developing organizations will discuss voluntary consensus standards activities and initiatives that are relevant to Federal agency missions and programs and, as such, need agency participation and involvement.

Moderator, **Don Spellman**, Oak Ridge National Laboratory (ORNL). Invited speakers:

– **Kitty Kono**, American Society for Testing and Materials (ASTM)

– **Tony O'Neill**, National Fire Protection Association (NFPA)

– **Gerry Eissenberg**, American Society for Mechanical Engineers (ASME)

– (Representative), Underwriters Laboratories (UL)

– **Leonard Tripp**, Chair, Software Engineering Standards, Institute for Electrical and Electronics Engineers (IEEE)

– **Jean-Paul Emard**, Electronic Industries Association (EIA)

2:45P–5:00P: **Session 6B: RMS Partnership/Acquisition Reform** – Representatives from government, industry and standards developing organizations will discuss the RMS Partnership and the impact that acquisition reform has had on organizational standards activities.

Moderator, **Russell Vacante**, RMS Partnership. Invited speakers:

– **Greg Saunders**, Department of Defense (DoD)

– **Jarrell Stracener**, Society of Automotive Engineers (SAE)

– **Kenneth LaSala**, Institute for Electrical and Electronics Engineers (IEEE)

– **Curtis DeVries**, American Society for Quality (ASQ)

Agenda

5:00P: **Workshop plenary session adjourns**

Thursday, August 6, 1998

The workshop reconvenes in separate agency-specific tracks with each sponsoring organization having presentations on more detailed subjects pertaining to the organization. A coordinator for each track will prepare summary notes of the breakout sessions (including copies of presentations) for inclusion in the workshop proceedings.

Track 1: **National Institute of Standards and Technology** (Coordinator: Joan Tyler, NIST)

8:30A–4:00P: **Implementation of OMB Circular A-119 by States** – Technical sessions/speakers TBD

Track 2: **Department of Energy** (Coordinator: **Don Williams**, ORNL)

8:30A–9:00A: **Session convenes:** Opening speaker - **Jim Lapping**, AFL-CIO

9:00A–10:15A: **Session A – Key Technical Standards Activities** – The speakers in this session will discuss recent activities related to the development and use of voluntary standards and DOE technical standards and the establishment of DOE "topical" committees for addressing technical standards development/use issues.

Moderator, **Kevin Greenaugh**, Office of Defense Programs, DOE. Invited speakers:

– **Gary Roberson**, DOE/Albuquerque Operations Office - New EM Standard on Storage of Plutonium Residue Materials

– **Lynn Holt**, Idaho National Engineering and Environmental Laboratory (INEEL) - Construction Safety and Hoisting & Rigging Topical Committees

– **Dale Snowder**, INEEL - Cost Reductions Achieved through the Application of Standardization for Procurement and Use of Portable Radiation Instrumentation within the DOE Complex

– **Ron Peterson**, DOE/Savannah River Operations and **Victor Dorbu**, Westinghouse Savannah River Company - Savannah River Site Certification to ISO 14001

10:15A–10:30A: **Break**

10:30A–12:00P: **Session B – Crosscutting DOE Initiatives Related to the Identification and Use of Technical Standards** – Issues such as integrated safety management, work-smart standards, external regulation, and laboratory accreditation are hot topics within DOE, and technical standards are or will be an important part of the success of these initiatives. The speakers in this session will provide the session participants with perspectives and insight on these activities, including the role of technical standards identification/use.

Moderator, **George Detsis**, Office of Environment, Safety and Health, DOE. Invited speakers:

– **John Austin**, Nuclear Regulatory Commission (NRC), and John Tseng, Office of Environmental Management, DOE - External regulation of DOE nuclear facilities

– **Richard Pettit**, Sandia National Laboratories - Laboratory Accreditation

Agenda

– **Clark Gibbs**, DOE/Richland Operations - Application of the "Integrated Safety Management" and "Work-Smart" Standards Processes for Safety Regulation of the Richland Tank Waste Remediation System (TWRS) Privatization Initiative

12:00P–1:00P: **Lunch** (on your own)

1:00P–2:30P: **Session C – Other DOE "Technical Standards" of Interest** – A number of standards management and standardization activities within or applicable to DOE programs are handled outside of the Technical Standards Program and Department Directives System. The speakers in this session will discuss some examples of these activities and the resulting guidance documents.

Moderator, **Merle Jackson**, DE&S/Hanford. Invited speakers:

– **Carol Blackston**, Office of Human Resources, DOE - Information architecture standards

– **Stephen Warren**, Office of Environmental Management, DOE - Decommissioning handbook and resource manual

– **Andrew Szilagy**i, Office of Environmental Management, DOE - Facility deactivation guide

– **Dorsey Edwards**, National Environmental Training Office, DOE - Multi-agency radiation survey and site investigation manual (MARSSIM)

2:30P–3:00P: **Break**

3:00P–4:30P: **Session D – Continuous Improvement in the Implementation of the Technical Standards Program (TSP)** – The TSP continues to respond to the challenges of meeting customer needs with fewer resources concurrent with realizing "just-in-time" process improvements. TSP personnel will discuss the program's response to these challenges and current initiatives.

Moderator, **Richard Serbu**, Office of Environment, Safety and Health, DOE

– **Madelyn Wilson**, Office of Scientific and Technical Information, DOE (TSP information management issues)

– **Don Williams**, ORNL (TSP procedural issues)

– **Richard Serbu**, DOE (TSP programmatic issues)

Hotel Information

Loews L'Enfant Plaza Hotel is located one block from the DOE Headquarters Forrestal Building. The hotel offers a full-service business center, full-service health and fitness center, and year-round rooftop pool. It is located directly above a shopping promenade featuring a number of specialty shops and eateries. In addition, a cafeteria managed for DOE is located directly across from the Forrestal Building.

A block of rooms has been reserved at the hotel for workshop participants from outside the Washington, D.C. area. A group room rate of $110.18 per night (single occupancy; $129.00 for double occupancy; add 13% tax and $1.50 occupancy tax) is available under the "Federal Technical Standards Workshop" room block name. Additional group guest room rates are also available. Provisions have been made for some early check-ins before the workshop; however, the number of rooms available is limited and will be filled on a "first-come" basis.

Room reservations can be made by contacting the hotel at 202-484-1000 (FAX: 202-646-4456). The cutoff date for room reservations under the workshop block name is July 10, 1998.

Airport Transportation

Loews L'Enfant Plaza Hotel is accessible via the Metrorail system by taking either the "Yellow" or "Blue" line train from the Ronald Reagan National Airport to the "L'Enfant Plaza" station.

Delta Airlines is offering special discount fares to various cities (including Washington, D.C.) through 1998. Call Delta (1-800-241-6760) between 8:00 AM and 11:00 PM Eastern time, and refer to file number DMN112634A for information on available flights, fares, and restrictions.

Workshop Contacts

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Internet Announcement: http://www.ornl/gov/etd/tsp/98workshop.htm
(registration)
http://apollo.osti.gov/html/techstds/techstds.html
(DOE TSP)

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Registration Form

1998 Federal Technical Standards Workshop

Please return no later than July 21, 1998.

Full Name

Nickname for Badge

Organization

Address

City State Zip

Phone Fax

E-Mail

RETURN TO:

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DOE Technical Standards Managers

The following is a complete list of personnel assigned as DOE Technical Standards Managers (TSMs) and Alternates (# indicates Alternate TSMs).

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The Standards Forum
Readers' Survey Form

FAX to: 423-574-0382 Attention: Amy Bush

FROM: Name: _____
Employer: _____
Street: _____
City/State/ZIP: _____
Email Address: _____

Standards Actions and *The Standards Forum* are *your* newsletters, and we want to make them as useful and valuable as possible to you. We would appreciate your help in this goal, and ask that you take a few minutes to complete and return this form to the above FAX number.

1. *Standards Actions* is currently published every month, and *The Standards Forum* every three months. Does this schedule meet your needs?
   ❑ Yes ❑ No (suggested schedule _____)

2. How current are the information/articles on technical standards activities provided in the newsletters?
   ❑ Current ❑ Somewhat current ❑ Out of date

3. How would you rate the quality of the information/articles in the newsletters?
   ❑ High ❑ Medium ❑ Low

4. How useful are the newsletter articles in your current position?
   ❑ Very useful ❑ Somewhat useful ❑ Rarely useful

5. How do you use the newsletters in your job?
   _____

6. In which of the following areas would you like to see more standards-related information/articles?
   ❑ Project/product Design ❑ Site Operations ❑ International Standards
   ❑ Strategic Standardization ❑ Work-Smart Standards ❑ Cost Savings From Standards Use
   ❑ QA/Compliance ❑ Coordination of Standards ❑ Resolving Comments on Standards
   ❑ Training Opportunities ❑ Integrated Standards Management ❑ Certification
   ❑ Procurement ❑ Operations/maintenance ❑ Legal Issues
   ❑ Other _____

7. Do you regularly access the newsletters via the Internet?
   ❑ Yes ❑ No

8. Which of the following categories best describes your employer?
   ❑ Department of Energy (DOE) ❑ Other Federal agency ❑ Standards development organization
   ❑ M&I contractor to DOE ❑ State regulatory agency ❑ DOE subcontractor/consultant
   ❑ Other _____ ❑ Private sector company

9. Which of the following best describes your position?
   ❑ Line Supervisor ❑ Program Manager ❑ ES&H Manager
   ❑ Facility Manager ❑ Industrial Hygienist ❑ Engineer
   ❑ Health Physicist ❑ Program Analyst ❑ Technician
   ❑ Other _____

10. Which of the following best describes your work?
    ❑ Administration ❑ Equipment Maintenance ❑ Security
    ❑ Compliance ❑ Occupational Safety ❑ Site Remediation
    ❑ Construction ❑ Operations ❑ Standards Review
    ❑ Emergency Response ❑ Program Analysis ❑ Standards Writing
    ❑ Engineering ❑ Quality Assurance ❑ Technical Support
    ❑ Environmental Protection ❑ Quality Control ❑ Training
    ❑ Health Physics ❑ Radiation Protection ❑ Waste Management
    ❑ Industrial Hygiene ❑ Research & Development ❑ Other _____

11. Overall, how would you rate the newsletters?
    ❑ Excellent ❑ Good ❑ Poor

12. How could *The Standards Forum* and *Standards Actions* be improved to meet your needs?
    _____
    _____
    _____

Your response is requested no later than August 14, 1998. Results of the survey will be published in the September 1998 edition of "The Standards Forum."